

11321-P068WOUS

ATTORNEY DOCKET NO.  
11321-P068WOUS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor application of: James M. Tour

Serial No.: 10/561,253

Filing Date: June 21, 2004

Art Unit: 1754

Examiner: Unknown

Title: *Polymerization Initiated at the Sidewalls of Carbon Nanotubes*

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
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Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Applicant hereby submits the following references in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of the references cited in the attached PTO/SB/08B are enclosed for the examiner's reference. Furthermore, pursuant to 37 C.F.R. § 1.97(g) and (h), no representation is made that this is material to patentability of the present application or that a search has been made.

Applicant hereby submits that claims of Applicant's referenced patent application are patentably distinguishable from these references.

Applicant does not believe that any fees are due at this time; however, the Director of Patents and Trademarks is hereby authorized to charge any fees relating to this Information Disclosure Statement under 37 CFR § 1.17 to Deposit Account No 23-2426 of WINSTEAD SECHREST & MINICK P.C. (referencing matter 11321-P068WOUS).

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Respectfully submitted,

Date: March 19, 2007

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#### CERTIFICATE OF MAILING

I hereby certify that the attached *Information Disclosure Statement* and cited art are being deposited with the USPS, with sufficient postage as first class mail, addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this the 19<sup>th</sup> day of March, 2007.

3/19/07  
Date

J. E. Minick  
Signature

901998v.1 11321/P068WOUS

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PTO/SB/06B (09-06)

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 4

## Complete if Known

Application Number	10/561,253
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First Named Inventor	James M. Tour
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	4	Ebbesen et al., "Large-scale Synthesis of carbon nanotubes", 358 Nature (1992), pgs. 220-222	
	5	Ebbesen et al., "Carbon Nanotubes", 24 Ann. Rev. of Mater. Sci. (1994), pgs. 235-264	
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	9	Wang et al., "Single-walled 4 A carbon nanotube arrays", 408 Nature (2000), pgs. 50-51	
	10	Hafner et al., "Catalytic growth of single-wall carbon nanotubes from metal particles", 296 Chem. Phys. Lett. (1998), pgs. 195-202	
	11	Cheng et al., "Bulk morphology and diameter distribution of single-walled carbon nanotubes synthesized by catalytic ..", 289 Chem. Phys. Lett. (1998), pgs. 602-610	
	12	Nikolaev et al., "Gas-phase catalytic growth of single-walled carbon nanotubes from carbon monoxide", 313 Chem. Phys. Lett. (1999), pgs. 91-97	
	13	Thess et al., "Crystalline Ropes of Metallic Carbon Nanotubes", 273 Science (1996), pgs. 483-487	

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	14	Vander Wal et al., "Flame and Furnace Synthesis of Single-Walled and Multi-Walled..", 105(42) J. Phys. Chem. B. (2001), pgs. 10249-10256	
	15	Rao, et al., "Functionlised carbon nanotubes from solutions" Chem. Commun. (1996), pgs. 1525-1526	
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	17	Liu, et al., "Fullerene Pipes", 280 Science (1998), pgs. 1253-1256	
	18	Chen, et al., "Chemical attachment of organic functional groups to single-walled carbon nanotube material", 282 Science (1998), pgs. 95-98	
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	20	Chen, Y. et al., "Chemical attachment or organic functional groups to single-walled carbon nanotube material", 13 J. Mater Res. (1998), pgs. 2423-2431	
	21	Bahr et al., "Covalent chemistry of single-wall carbon nanotubes" 12 J. Mater. Chem. (2002), pgs. 1952-1958	
	22	Banerjee et al., "Rational Chemical Strategies for Carbon Nanotube Functionalization" 9 Chem. Eur. J. (2003), pgs. 1898-1908	
	23	Holzinger et al., "Sidewall Functionalization of Carbon Nanotubes", 40(21) Angew. Chem. Int. Ed. (2001), pgs. 4002-4005	

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	24	Bahr et al., "Dissolution of small diameter single-wall carbon nanotubes in organic solvents", Chem. Commun. (2000), pgs. 193-194	
	25	Dyke, et al., "Solvent-Free Functionalization of Carbon Nanotubes," 125 J. Am. Chem. Soc. (2003), pgs. 1156 -1157	
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	28	Storey et al., "Kinetics and Mechanism of the Stannous Octoate-Catalyzed Bulk Polymerization of epsilon-caprolactone", 35 Macromolecules (2002), pgs. 1504-1512	
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	31	Bratcher, et al., "Study in the Dispersion of Carbon Nanotubes", 706 Mat. Res. Soc. Symp. Proc. (2002), pp. Z9.29.2 - Z9.29.6	
	32	Ederle, et al., "Carbanions on Grafted C60 as Initiators for Anionic Polymerization", 30(15) Macromolecules (ACS) (1997), pp. 4262-4267	
	33	Shaffer, et al., "Polystyrene grafted multi-walled carbon nanotubes", Chem. Comm. (09/12/02), pp. 2074-2075	

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